



30-60kW Hybrid Inverter

Suitable for industrial energy storage system,
on/off-grid seamless switching, stable operation



Easy Installation



Ultra-Silent



IP65 Protection

KY-EST30KH
KY-EST40KH

KY-EST50KH
KY-EST60KH



• PV & Storage system

Integrated PV and storage system model, supporting various kinds of batteries, and integrates EMS smart energy management system;

• Smart switching

Modular design, supporting multiple parallel connections, expandable power and capacity:

• Wide voltage input range

Wide PV voltage input range 180V-900V. wide batteries voltage range 220V-800V:

• Safe and reliable

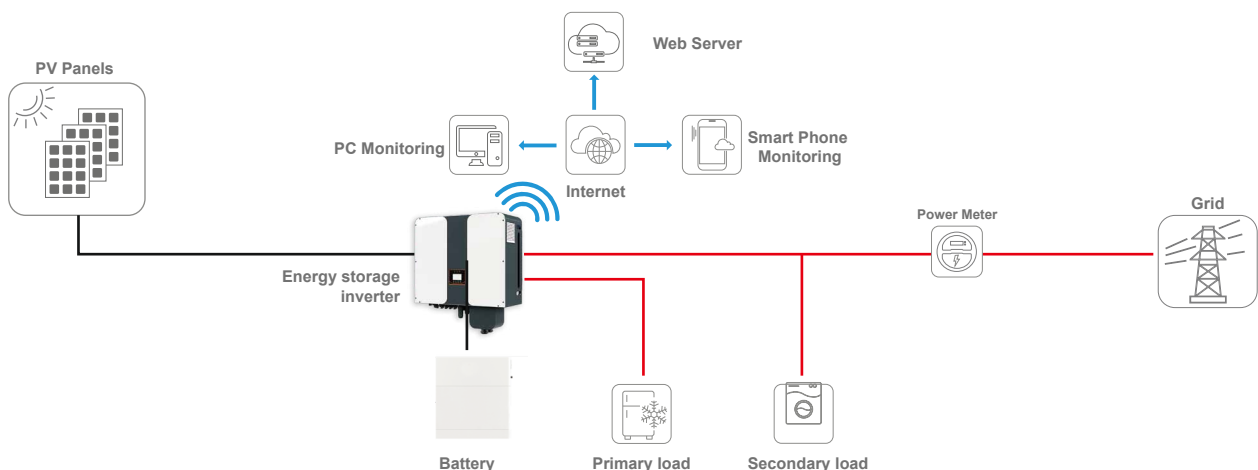
IP54 protection, all-aluminum design, built-in anti-lightning protection, high precision leakage protection;

• Smart and simple

Ultra silent, flexible communications, support remote/local USB upgrade;

• Efficient power generation

High-current instantaneous charge-discharge switching to improve power generation efficiency.



Model	KY-EST30KH		KY-EST40KH		KY-EST50KH		KY-EST60KH	
PV Input Data								
Max. Input Power	45000W		60000W		75000W		90000w	
Max, Input Voltage	1000v							
MPPT Operating Voltage Range	180-900V/630V							
Start-up Voltage	180V							
Max. Input Current	36A/36A/36A				36A/36A/36A/36A			
Max. Short Circuit Current	42A/42A/42A				42A/42A/42A/42A			
Number Of MPPT Trackers	3				4			
Number Of Strings Per MPPT	2/2/2/2				2/2/2/2			
Battery Input Data								
Battery Voltage Range	220-800v							
Max.Charge/Discharge Current	100A/100A							
Max.Charge/Discharge Power	30000W		40000W		50000W		60000W	
Battery Type	Li-ion							
AC Output Data(On-grid)								
Nominal Output Power	30000W		40000W		50000W		60000W	
Max. Apparent Power	30000VA		40000VA		50000VA		60000VA	
Nominal Output Voltage	380V/400V, 3L/N/PE							
Nominal Output Frequency	50Hz/60Hz							
Max.Output Current	45A		60A		75A		87A	
Power Factor	~1 (0.8 lead to 0.8 lag can be set							
Total Harmonic Distortion	<3%							
AC Output Data(Back-up)								
Nominal Output Voltage	380V/400V., 3L/N/PE							
Nominal Output Frequency	50Hz /60Hz							
Nominal Output Current	45A		60A		75A		87A	
Nominal Output Power	30000w		40000W		50000W		60000W	
Max. Apparent Power	30000VA		40000VA		50000VA		60000VA	
Max.Single-phase Apparent Power	10000VA		13000VA		17000VA		20000VA	
Switching Time	<10ms							
Efficiency								
Max. Efficiency			98.40%				98.60%	
European Efficiency			97.50%				97.50%	
Protection								
AC Overcurrent Protection					Integrated			
Ground Fault Protection					Integrated			
Power Network Monitoring					Integrated			
Residual Current Monitoring					Integrated			
General Data								
Operating Temperature Range	-25℃~60℃(>45℃ Derating)							
Altitude	<4000m (> 2000m Derating)							
Noise Emission	<40dB							
Topology	Transformerless Isolation							
Cooling	Integrated Fan							
Ingress Protection Rating	IP54							
Relative Humidity	0~90%,No Condensation							
DC Connector Type	Quick-plug Terminal							
AC Connector Type	Termianl							
Display	LCD							
Cloud Communication	RS485 (WiFi/4G/GPRS Optional)							
BMS Communication Mode	CAN							
Communication with Meter	RS485							
Installation	Wall-mounted/Landing							
Self-consumption at Night	< 10W							
Dimension (W*D*H)	800*350*875mm							
Weight	102kg							
Certification								
Safety Standards	IEC62109-1/2							
EMC Standards	EN61000-6-1/-2/3,IEC61000							
On-grid Standard	NRS097-2-1:2017,CQC 3310-2014							